



10/520878

(43) International Publication Date 26 May 2005 (26.05.2005)

(10) International Publication Number

(51) International Patent Classification7:

A61F 2/02

WO 2005/046519 A1

(21) International Application Number:

PCT/US2004/037217

(22) International Filing Date:

5 November 2004 (05.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/518,050	7 November 2003 (07.11.2003)	US
60/547,935	26 February 2004 (26.02.2004)	US
60/565,438	26 April 2004 (26.04.2004)	US
60/574,501	26 May 2004 (26.05.2004)	US
10/610,391	30 June 2004 (30.06.2004)	US
60/585,775	6 July 2004 (06.07.2004)	US

- (71) Applicant (for all designated States except US): GP MED-ICAL, INC. [US/US]; 15 Riez, Newport Beach, CA 92657
- (72) Inventors: SUNG, Hsing-Wen; 7F, No.15, Alley 7, Lanw298, Sec 2, Kung-Fu Road, Hsinchu (**). CHEN, Mei-Chin; 10F, No 4, Gueiyang St., Taishan Shiang (**). TU, Peter, Y.; 26 Almond Tree Lane, Irvine, CA 92612 (US). TU, Hosheng; 15 Riez, Newport Beach, CA 92657 (US).

- (74) Common Representative: TU, Hosheng; 15 Ricz, Newport Beach, CA 92657 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DRUG-ELUTING BIODEGRADABLE STENT

(57) Abstract: The present invention relates to a drug-loaded biodegradable stent and methods for treating vulnerable plaques of a patient comprising a plurality of layers or zones, each layer or zone comprising its own specific biodegradation rate and its specific drug loading characteristics. In one embodiment, the layers and zones are configured and arranged, in combination, radially, circumferentially and longitudinally.